

Amendments to the Specification

Please replace the paragraph beginning on page 5, line 14, with the following rewritten paragraph:

NE In an expedient embodiment the auscultation signal is pre-filtered iteratively by means of a high-pass filter until the duration of time of signal segments is less than the limit.

Thereby, a tangible stopping ~~criteria~~ criterion for the iterative filtering process is provided.

NE Please replace the paragraph beginning on page 5, line 27, with the following rewritten paragraph:

In an expedient embodiment the iterative filtering process is terminated when the auscultation signal has been filtered a specified number of times and that an indicator signal indicating termination of the filtering process is provided. Thereby it is possible to select a threshold for a maximum number of allowable filtering iterations when reached may generate a warning signal.

Please replace the paragraph beginning on page 7, line 13, with the following rewritten paragraph:

C1 fig. 3a shows the iterative filter process of the filter algorithm and figure 3b, 3c, 3d and 3e illustrates the algorithm performed ~~on heart stepwise, stepwise~~ on a heart signal,

Please replace the paragraph beginning on page 7, line 24, with the following rewritten paragraph:

C2 Fig. 10a illustrates the transfer function of pre-filter and ~~Figure 10b~~ Fig. 10b illustrates the post-filter.

Please replace the paragraph beginning on page 12, line 13, with the following rewritten paragraph:

C3 Further, it should be noted that the number of iterations in the iterative filter depends on the auscultation signal in question. Typically, an auscultation signal acquired from the

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~~breast ease rib-cage~~ of an adult breathing normally requires 2-3 iterations, whereas an auscultation signal acquired from the lungs of an adult breathing normally requires 1-2 iterations. A maximum number of iterations is specified to 5 iterations.

Please replace the paragraph beginning on page 13, line 7, with the following rewritten paragraph:

C4
When a succession of segments having a short duration of time is detected, the CAS algorithm ~~patch~~-patches the succession of segments together to form a coherent segment, which coherent segment is repeated a specified number of times corresponding to the rate at which the auscultation signal shall be slowed down. It should be noted that the coherent segment corresponds to a given part of the auscultation signal wherein there is a number of zero-crossings.
